

Center for Value Added Seed Technology

Dr. Grant Vest/Utah State University/Logan, Utah

Established center in 1991. Currently developing patented breeding lines of wheat that will increase yields 10 to 15%. A special turf seed is being researched that is drought resistant, requiring 25 to 40% less water than current turf.

<u>Overview</u>	<u>Technologies</u>	<u>Status</u>	<u>Economic Impact</u>
Current State Contract \$70,000	*Biotechnology	*Current grass breeding program has led to the development of two crested wheatgrass breeding populations suitable as turfs	*Received a USDA grant of almost \$90,000
Matching Funds \$142,300	●Plant tissue culture		
Cumulative \$142,300	●Molecular Biology		
Industry Jobs Created -	*Plant Physiology		*Drought tolerant turfgrass will be released in three years
Center Related Jobs 14	*Plant Breeding, Genetics and Cytogenetics	*Efforts to transfer DNA from sainfoin (bloat safe) to alfalfa (bloat causing) via microinjection and electroporation is underway	*Hybrid wheat could create value added wheat seed production for Cache Valley
Benefiting Utah Co.'s Spin-off companies -	*Develop drought-tolerance turf		
Patents Applied -	*Transfer apomixis from wild grass species into commercial small grain crops	*Developing improved varieties of small grains and forages	
Patents Issued -			
License Agreements -			